

File ACT/007/009

VALLEY CAMP OF UTAH, INC.

JIM

AUG 05 1981

Scofield Route
Helper, Utah 84526

RECEIVED

JUL 29 1981

DIVISION OF
OIL, GAS & MINING

To Wayne Lee
24, 1981 for
action &
response

Send copy
to McNeal

James W. Smith, Jr.
Coordinator of Mined Land Development
Division of Oil, Gas and Mining
1588 West North Temple
Salt Lake City, Utah 84116

RE: Filter Pond Design
Belina No. 1 Mine

The filter pond in use at Valley Camp of Utah Belina No. 1 Mine is undersized for the amount of water presently being discharged from the mine. The present filter flow rate is 1.56 gpm per sq.ft. at 250 gpm; it is proposed to enlarge this filter capacity by decreasing the flow rate to .260 gpm per sq.ft. at 250 gpm.

To enlarge the filter area will require lengthing the filter dike from 40 feet to 60 feet and installing a new filter dike in the Northern most pond; requiring the water to pass through two filter areas instead of the present primary filter area. It is also proposed to construct an inlet prefilter composed of 1 1/2" blast furnace slag which can easily be periodically replaced.

During construction of the pond all mine discharge will be diverted to the mine area sediment pond in accordance with regulations required by the Federal and State authorities.

The construction of the filter will consist of sealing the bottom of the pond and dike with 18" of impervious shale; then covering this shale with a layer of 1 1/2" blast furnace slag to a thickness of 12". The filter dike will be constructed with a core of 1 1/2" blast furnace slag then a layer of 3/8 x 0 coke breeze to a filter thickness of 18" followed by another layer of 1 1/2" blast furnace slag as shown in the construction drawing.

To enlarge the filter pond no topsoil or outslopes will be disturbed therefore the stablization of the slopes and revegetation will not be changed from the present. The proposed addition to the filter pond will be constructed so as to not receive any surface drainage from the surrounding area.

Sincerely yours;
E.B. Foust
E.B. Foust P.E.
Chief Engineer

